



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.:CTCE/BBMP/NNS/W.No.8/CSR-12/824d/Cube/2018-19

05.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore..
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of the work	: Improvements of Roads, Drains and Culvert at Kodigehalli Ward No.8, BBMP,Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Sample ID	: Cement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₁₅
Compressive Strength as on	: 28 th day
Sample Received on	: 05.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.01.2019	05.02.2019	8.195	380.3	16.90
2	08.01.2019	05.02.2019	8.369	375.7	16.70
3	08.01.2019	05.02.2019	8.254	390.1	17.34

*Information is furnished by the Customer/Representative.

Note:

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1	08.01.2019	05.02.2019	8.195	375.7	16.70
2	08.01.2019	05.02.2019	8.369	380.7	16.92
3	08.01.2019	05.02.2019	8.254	385.7	17.14

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Sample Received on	: 05.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.01.2019	05.02.2019	8.236	365.6	16.25
2	08.01.2019	05.02.2019	8.250	375.4	16.68
3	08.01.2019	05.02.2019	8.265	383.1	17.03

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Sample Received on	: 05.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.01.2019	05.02.2019	8.116	500.7	22.25
2	08.01.2019	05.02.2019	8.148	499.9	22.22
3	08.01.2019	05.02.2019	8.265	487.6	21.67

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1	08.01.2019	05.02.2019	8.108	480.7	21.36
2	08.01.2019	05.02.2019	8.204	499.6	22.20
3	08.01.2019	05.02.2019	8.309	536.5	23.84

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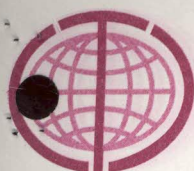
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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.01.2019	05.02.2019	8.160	523.7	23.27
2	08.01.2019	05.02.2019	8.356	499.7	22.21
3	08.01.2019	05.02.2019	8.245	500.4	22.24

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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	07.01.2019	04.02.2019	8.116	499.7	22.21
2	07.01.2019	04.02.2019	8.360	516.9	22.97
3	07.01.2019	04.02.2019	8.286	520.3	23.12

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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	07.01.2019	04.02.2019	8.275	523.7	23.27
2	07.01.2019	04.02.2019	8.346	500.9	22.26
3	07.01.2019	04.02.2019	8.405	489.7	21.76

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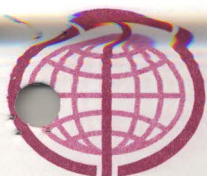
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1	07.01.2019	04.02.2019	8.165	485.7	21.58
2	07.01.2019	04.02.2019	8.364	490.7	21.81
3	07.01.2019	04.02.2019	8.244	525.4	23.35

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2	07.01.2019	04.02.2019	8.346	525.0	23.33
3	07.01.2019	04.02.2019	8.418	531.6	23.63

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Compressive Strength as on	: 28 th day
Sample Received on	: 02.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.01.2019	02.02.2019	8.325	499.9	22.22
2	05.01.2019	02.02.2019	8.365	500.2	22.23
3	05.01.2019	02.02.2019	8.456	526.6	23.40

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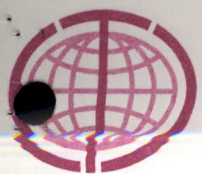
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Job No.: CTCE/BBMP/NNS/W.No.8/CSR-12/824d/Cube/2018-19

02.02.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of the work	: Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 02.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.01.2019	02.02.2019	8.123	478.4	21.26
2	05.01.2019	02.02.2019	8.137	498.7	22.16
3	05.01.2019	02.02.2019	8.365	500.6	22.25

*Information is furnished by the Customer/Representative.

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Compressive Strength as on	: 28 th day
Sample Received on	: 02.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.01.2019	02.02.2019	8.365	514.2	22.85
2	05.01.2019	02.02.2019	8.323	526.3	23.39
3	05.01.2019	02.02.2019	8.408	488.7	21.72

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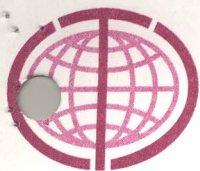
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Compressive Strength as on	: 28 th day
Sample Received on	: 02.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.01.2019	02.02.2019	8.365	498.7	22.16
2	05.01.2019	02.02.2019	8.246	506.4	22.50
3	05.01.2019	02.02.2019	8.345	526.5	23.40

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 01.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	04.01.2019	01.02.2019	8.105	499.6	22.20
2	04.01.2019	01.02.2019	8.205	536.4	23.84
3	04.01.2019	01.02.2019	8.325	517.6	23.00

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Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 01.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	04.01.2019	01.02.2019	8.365	523.1	23.25
2	04.01.2019	01.02.2019	8.265	499.5	22.20
3	04.01.2019	01.02.2019	8.341	489.5	21.76

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Sample Received on	: 01.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	04.01.2019	01.02.2019	8.265	500.4	22.24
2	04.01.2019	01.02.2019	8.346	498.7	22.16
3	04.01.2019	01.02.2019	8.294	537.0	23.87

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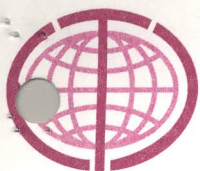
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Compressive Strength as on	: 28 th day
Sample Received on	: 01.02.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	04.01.2019	01.02.2019	8.365	500.6	22.25
2	04.01.2019	01.02.2019	8.254	475.7	21.14
3	04.01.2019	01.02.2019	8.145	525.4	23.35

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Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 31.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.01.2019	31.01.2019	8.461	499.6	22.20
2	03.01.2019	31.01.2019	8.369	500.4	22.24
3	03.01.2019	31.01.2019	8.254	525.5	23.35

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Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.01.2019	31.01.2019	8.257	517.0	22.98
2	03.01.2019	31.01.2019	8.315	523.6	23.27
3	03.01.2019	31.01.2019	8.405	530.5	23.58

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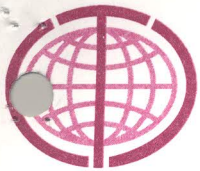
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1	03.01.2019	31.01.2019	8.156	500.6	22.25
2	03.01.2019	31.01.2019	8.365	498.7	22.16
3	03.01.2019	31.01.2019	8.246	525.4	23.35

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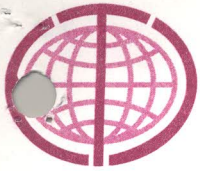
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Job No.: CTCE/BBMP/NNS/W.No.8/CSR-12/824d/Cube/2018-19

31.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of the work	: Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 31.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.01.2019	31.01.2019	8.265	498.7	22.16
2	03.01.2019	31.01.2019	8.360	500.6	22.25
3	03.01.2019	31.01.2019	8.459	536.5	23.84

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.8/CSR-12/824d/CEMENT/2018-19

Date: 12.12.2018

TEST REPORT ON CEMENT

* Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of Work	:	Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Sample ID	:	Cement
Sample Received on	:	10.12.2018
Period of Testing	:	10.12.2018 to 12.12.2018



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	375 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.8/CSR-12/824d/SAND-Gradation/2018-19

12.12.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of Work	: Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Sample ID	: Fine Aggregates (Manufactured Sand)
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 10.12.2018
Date of Testing	: 12.12.2018



Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.50	90-100	90-100	90-100	95-100
2.36	78.00	60-95	75-100	85-100	95-100
1.18	56.50	30-70	55-90	75-100	90-100
600 Micron	40.50	15-34	35-59	60-79	80-100
300 Micron	12.10	5-20	8-30	12-40	15-50
150 Micron	3.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2:

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Job No.: CTCE/BBMP/NNS/W.No.8/Steel/2018-19

14.12.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of work	: Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Samples ID	: 12 mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 14.12.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	525	567	13.35	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.8/Steel/2018-19

14.12.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of work	: Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Samples ID	: 10 mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 14.12.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	516	557	13.25	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.8/Steel/2018-19

14.12.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of work	: Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Samples ID	: 8 mm Bar
Technical Reference	: IS: 1786-2008 (RA-2013)
Date of Testing	: 14.12.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	514	555	13.1	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.8/CSR-12/824d/AGG/GR/2018-19

12.12.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara, E Block, Bangalore-560092.
* Name of Work	: Improvements of Roads, Drains and Culverts at Kodigehalli Ward No.8, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/174/2018-19 Dated:10.12.2018
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 10.12.2018
Date of Testing	: 12.12.2018



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.70	95-100	85-100
20	44.80	30-70	0-20
10	22.90	10-35	0-5
4.75	3.80	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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